WHIRLPOOL AUSTRALASIA

CONSUMER SERVICES

SERVICE MANUAL

CLOTHES DRYER

Models 6LBR5132EQ0
6LBR5132EQ1

This Service Manual supersedes Service Manual, Part No. SM2048, for Model 6LBR5132EQ0 dated September 1997.

Please remove and destroy the superseded manual.

Copyright © 2000 Whirlpool (Australia) Pty. Limited
All rights strictly reserved. Reproduction or issue to third parties in any form whatsoever is not permitted without written authority of Whirlpool (Australia) Pty. Limited
Whirlpool is a registered trademark of Whirlpool U.S.A.

This documentation is intended only for qualified technicians who possess the required qualifications and are aware of the regulatory requirements applicable to servicing electrical appliances.

Whirlpool (Australia) Pty Limited
A. B. N. 28 003 578 023
Part No. SM2002

CONTENTS

	Page
MODEL SPECIFICATIONS	3
LITERATURE AND OPTIONAL PARTS NOT INCLUDED	3
AUTOMATIC (ELECTRONIC) TEMPERATURE CONTROL - ATC (ETC)	4 - 5
SERVICING THE ATC COMPONENTS	6
TEST PROCEDURE	7
WATER LEVEL SWITCH	8
TOP AND CABINET PARTS	10 - 11
CONTROLS AND REAR PANEL PARTS	12 - 13
AGITATOR, BASKET AND TUB PARTS	14 - 15
BRAKE, CLUTCH, GEARCASE, MOTOR AND PUMP PARTS	16 - 17
MACHINE BASE PARTS	18 - 19
WIRING HARNESS PARTS	20 - 21
BRAKE AND DRIVE TUBE PARTS	22 - 23
GEARCASE PARTS	24 - 25
WATER SYSTEM PARTS	26
MISCELLANEOUS PARTS	27
CIRCUIT DIAGRAM - Model 6LBR5132EQ0	28
TIMER CHART - Model 6LBR5132EQ0	29
CIRCUIT DIAGRAM - Model 6LBR5132EQ1	30
TIMER CHART - Model 6LBR5132EQ1	31

MODEL SPECIFICATIONS

Dimensions : 610mm (W) x 660mm (D) x 920mm (H)

Mass : 75.6 kg (Incl. Packaging)

Electrical : 240 Volts, 50 Hz, 4.0 Amperes

Energy Efficiency : 575 kW.h per annum, 3 Star, 5.5 kg - Model 6LBR5132EQ0
: 643 kW.h per annum, 3 Star, 5.5 kg - Model 6LBR5132EQ1

Timer Cycles : 5 Cycles
1. Regular - Normal
2. Regular - Light
3. Permanent Press - Normal
4. Extended soak
5. Pre-wash

Water Levels Large : 356mm in basket
Small : 190mm in basket

Water Temperatures
: 4 without Automatic Temperature Control - Model 6LBR5132EQ0
: 4 with Automatic Temperature Control - Model 6LBR5132EQ1

Agitation : 180 strokes per minute

Spin Speed : 640 rpm

Optional Accessories

: Drain Protector	367031
Stand-pipe Kit	89121
Siphon Break Kit	285320
Fabric Softener Dispenser	63580

LITERATURE PARTS

Part No	Description
LIT3948875	Sheet, Installation Instructions
LIT3951062	Guide, Use And Care
LIT3951663	Energy Guide
LIT3947642	Label, Wiring Diagram - Model 6LBR5132EQ0
LIT3952435	Label, Wiring Diagram - Model 6LBR5132EQ1

OPTIONAL PARTS NOT INCLUDED

Part No	Description
72017	Paint, Touch-up (1/2 Oz.)
350938	Paint, Grey Primer, Pressurised Spray (13 Oz.)
350930	Paint, White, Pressurised Spray (13 Oz.)
799344	Paint, White Uncut, 1.14 litres
350572	Oil, Gearcase (16 Oz.)
285208	Lubricant, (Use only on brake shoe assy. roller and pin)
285195	Sealer, gasket (gearcase cover) 6ml

AUTOMATIC (ELECTRONIC) TEMPERATURE CONTROL - ATC (ETC)

The ATC system controls the incoming water supply to provide an accurate setting for the water temperature in the washing machine tub. The ATC system uses a thermistor located in the water supply tubing between the water inlet valves and the and the vacuum break (See Figure 1). The thermistor senses the incoming water temperature and provides input to the ATC control board.

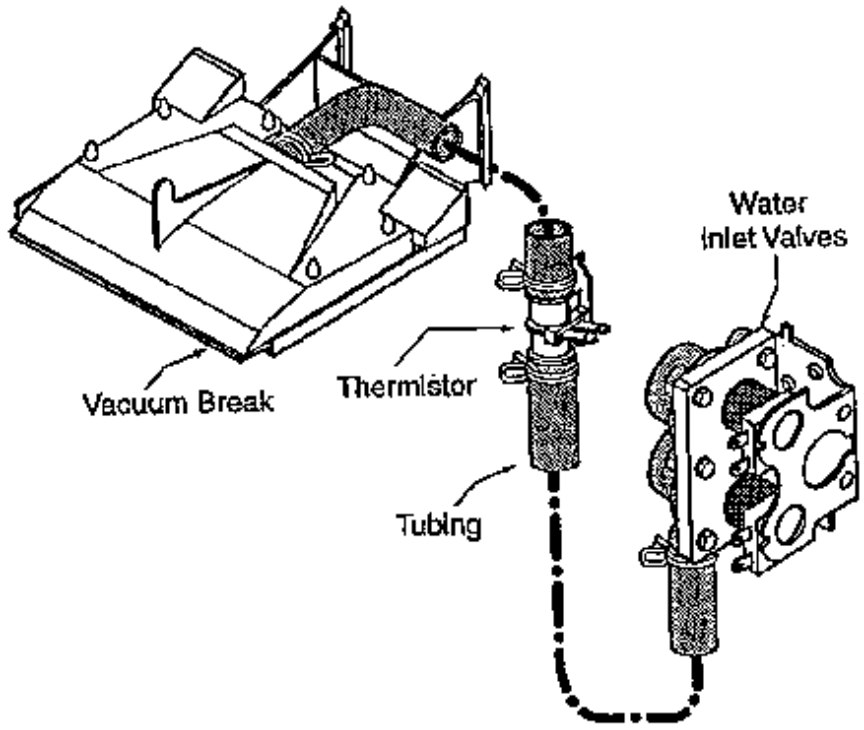


Figure 1

The ATC control board uses the input from the thermistor to cycle the hot and cold water solenoids on the water inlet valves to achieve the desired water temperature. A triac located on the control board, cycles the hot and cold water solenoids through the water temperature switch (See Figure 2).

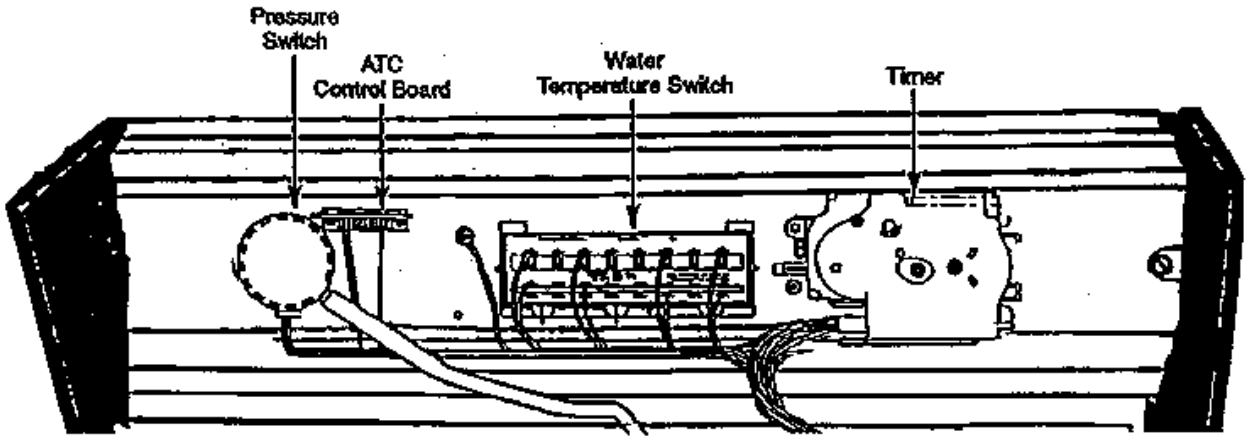


Figure 2

The ATC system will provide 24°C ± 3°C For the *COLD* setting and 38°C ± 5°C For the *WARM* setting.

With the temperature selector switch set to *COLD*, the cold water solenoid energised for 100% of the time and the hot water solenoid is cycled on and off (See Figure 3).

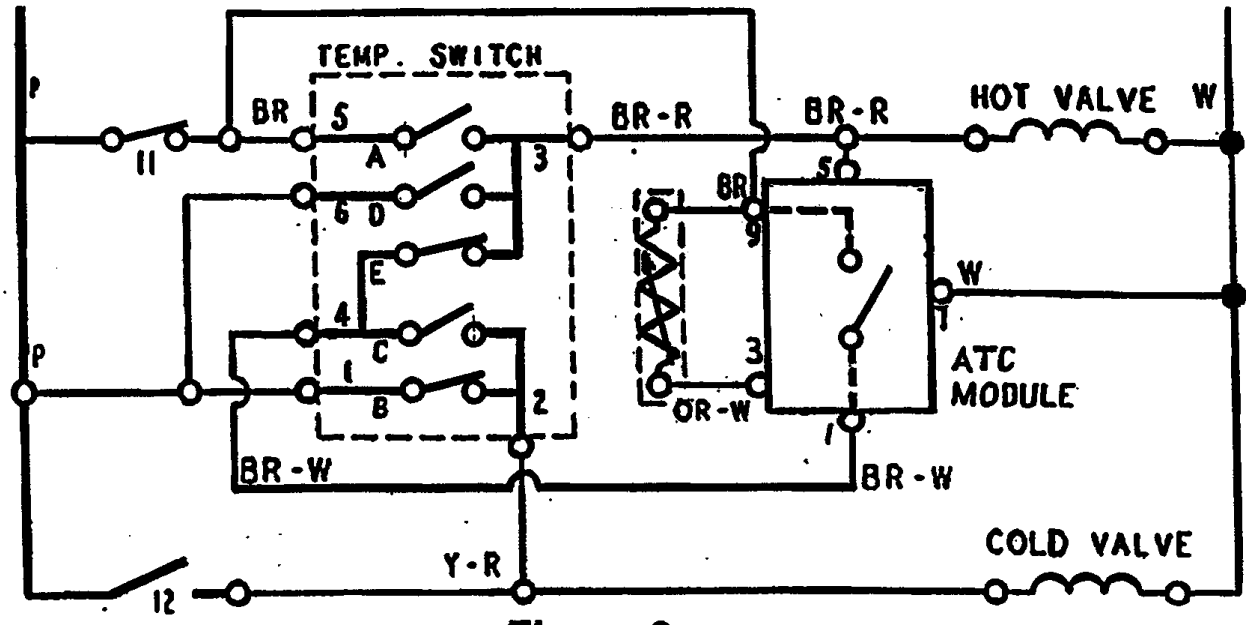


Figure 3

With the temperature selector switch set to *WARM*, the hot water solenoid energised for 100% of the time and the cold water solenoid is cycled on and off (See Figure 4).

Note : During the warm water fill, both solenoids are energised for 55 seconds. After 55 seconds, the hot water inlet valve stays on and the cold water inlet valve cycles.

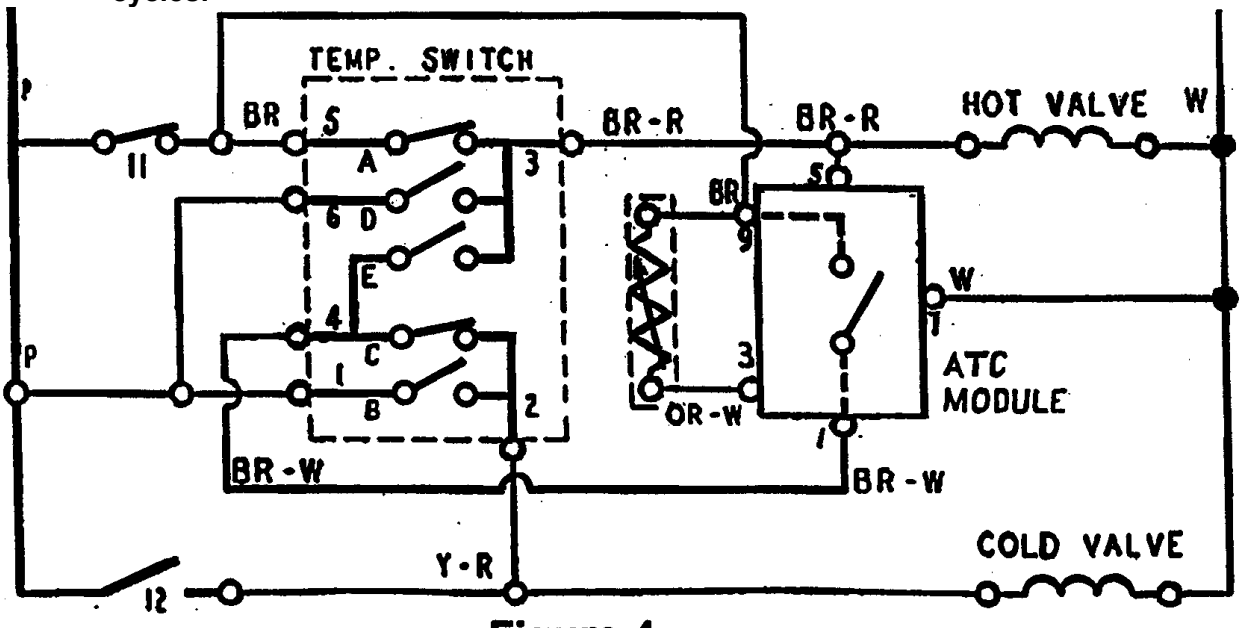


Figure 4

The ATC is only active during the wash fill, it has no effect on the rinse water temperature.

SERVICING THE ATC COMPONENTS

1. To remove the ATC Control Board (See Figure 2 on Page 4), grip the sides of the board and pull it straight out of its connector.

2. To remove the thermistor (See Figure 5) :

   I. Disconnect the two wire connectors from the thermistor terminals.
   II. Remove the two clamps from the hoses and pull the hoses off the connectors.
   III. Pry the pins at the top at the top and bottom of the thermistor out of their console holes and twist the body 90° in either direction. Pull the tab out of the console slot and remove the thermistor.

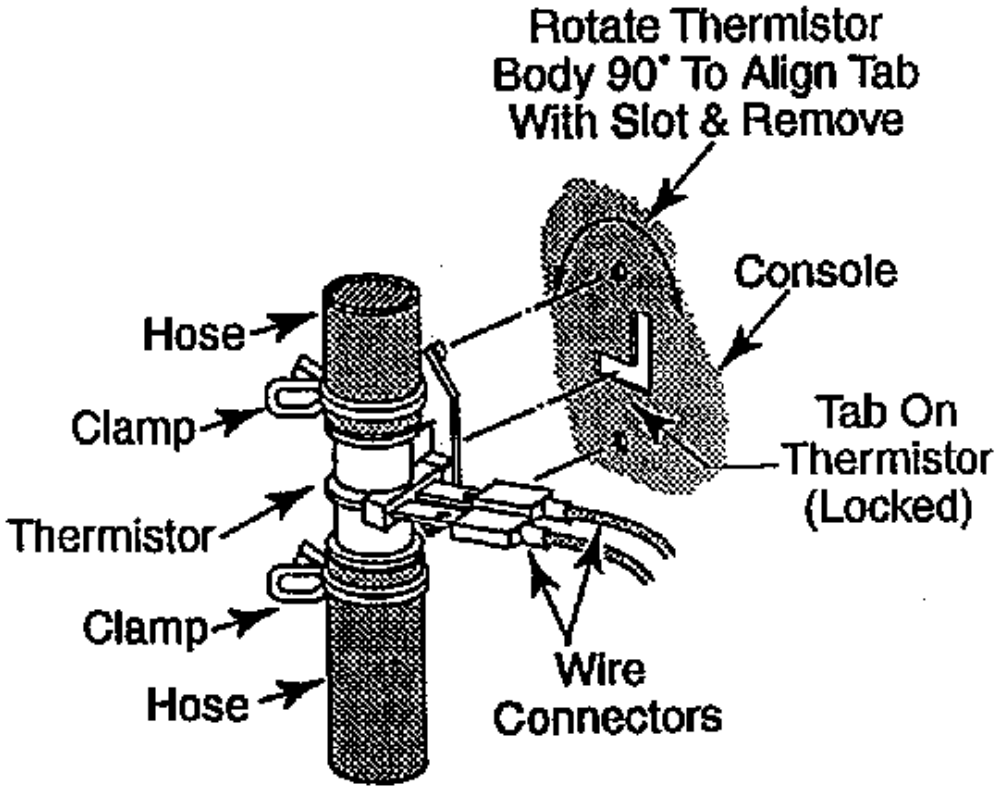


Figure 5

TESTING AND CHECKING ATC SYSTEM

The following steps test the ATC portion of the system.

Notes :

1. **A properly operating ATC system will provide the following water temperatures in the washer after the machine has filled with water ready for the wash operation :**
   Cold Wash : 24°C ± 3°C
   Warm Wash : 38°C ± 5°C

2. **The hot wash and all rinse water fills are not controlled by the ATC.**

3. **On cold wash setting Using gravity feed hot water systems may not allow the wash water to achieve 24°C ± 3°C.**

TEST PROCEDURE

1. Set the water temperature selector switch to Warm wash / Cold rinse.

2. Set the timer to the start of a wash cycle, start the machine and the tub will begin filling with water.

3. Both the hot and cold inlet valves will operate continuously for approximately 55 seconds. After the 55 seconds the hot water inlet valve should remain energised while the cold water inlet valve will cycle on and off.

4. If the cold water inlet valve is not working properly :
   - Disconnect the machine from the electrical supply.
   - Check the ATC Control Board for proper installation in its connector.
   - Make sure that the harness wires are in their proper location in the connector.
   - Remove the ATC Control Board from its connector.
   - Using an ohmmeter, measure the resistance of the thermistor at connector harness wires 3 (OR-W) and 9 (BR). Compare the reading with the values in the "Thermistor Resistance Chart" (See Page 8).

     If the ohmmeter readings are incorrect Remove and replace the thermistor and repeat the test.

     Notes :

     I. If the hot water temperature is less than 49°C, the cold water inlet valve may turn off and stay off.

     II. If the cold water temperature is above 21°C, the cold water inlet valve will stay on continuously.

     III. If the thermistor is open-circuit, the cold water inlet valve will stay off. If the thermistor is shorted, the cold water inlet valve will stay on continuously.

5. Set the water temperature selector switch to Cold wash / Cold rinse.

6. Set the timer to the start of a wash cycle, start the machine and the tub will begin filling with water.

7. The cold water inlet valve should remain energised while the hot water inlet valve will cycle on and off. **If the cold water temperature is above 18°C, the hot water inlet valve may not operate.**

   If the hot water inlet valve is not working properly disconnect the machine from the electrical supply, replace the ATC Control Board and repeat steps 6. & 7.

Thermistor Resistance Chart

Temperature °C	Resistance kOhms
5	123.1 - 131.7
10	97.0 - 102.0
15	77.0 - 80.4
20	61.4 - 64.4
25	49.6 - 51.2
30	40.0 - 41.0
35	32.0 - 33.5
40	26.0 - 27.6
45	21.5 - 22.5
50	17.4 - 18.4
55	14.7 - 15.7
60	12.0 - 13.0
65	10.2 - 11.2

WATER LEVEL SWITCH

All new models are being fitted with a new water level switch constructed with a plastic body.

To remove the water level switch :

1. Pull the knob off the switch shaft.
2. Unplug the wiring harness connector from the switch assembly terminals and remove the pressure switch tubing.
3. Depress the tab and rotate the switch 90° and pull it from the console mounting plate.

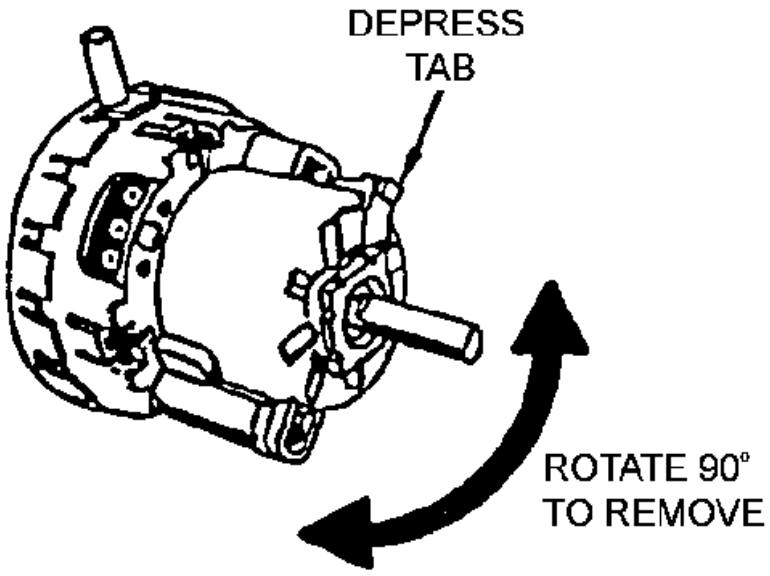
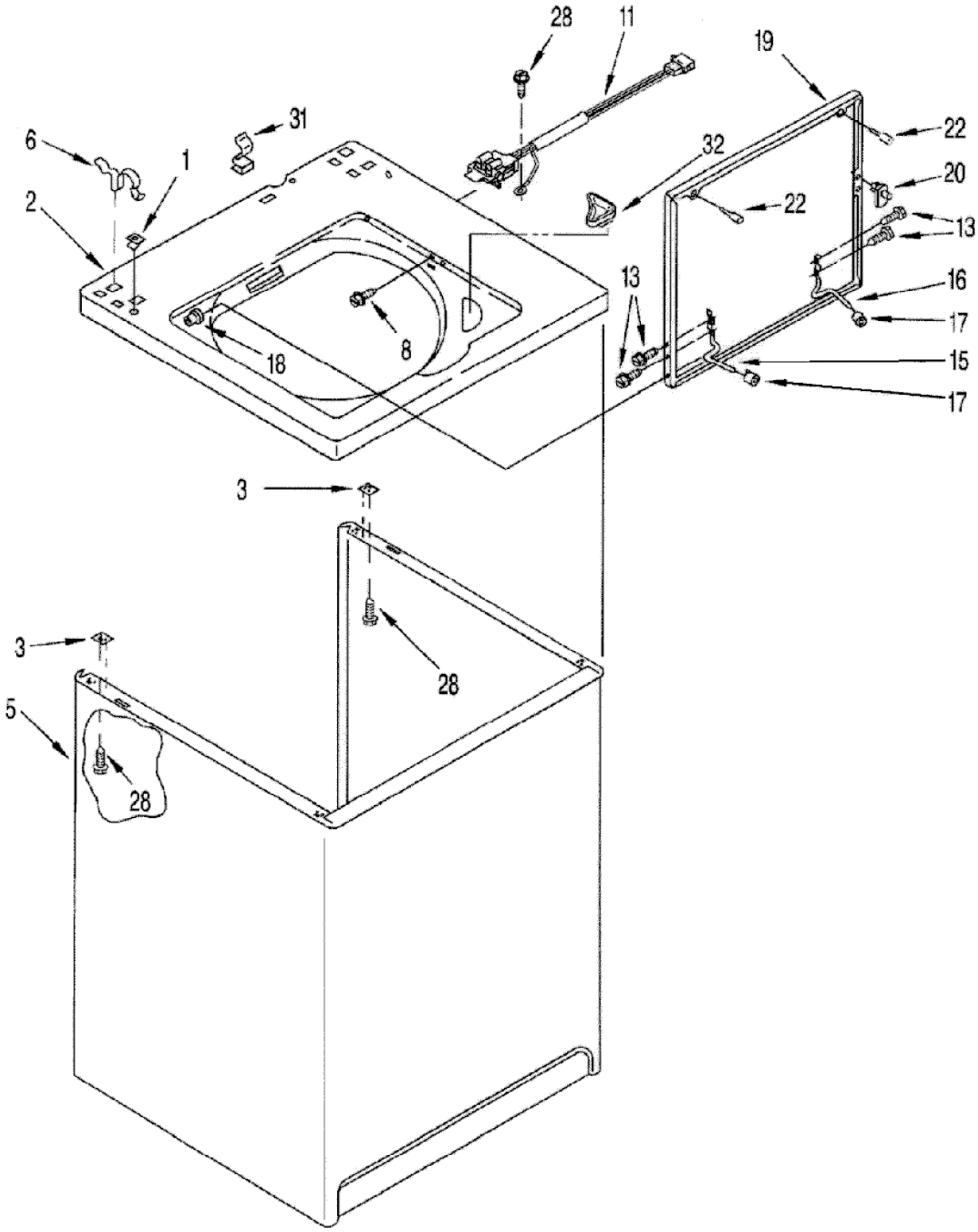


Figure 6

Blank Page

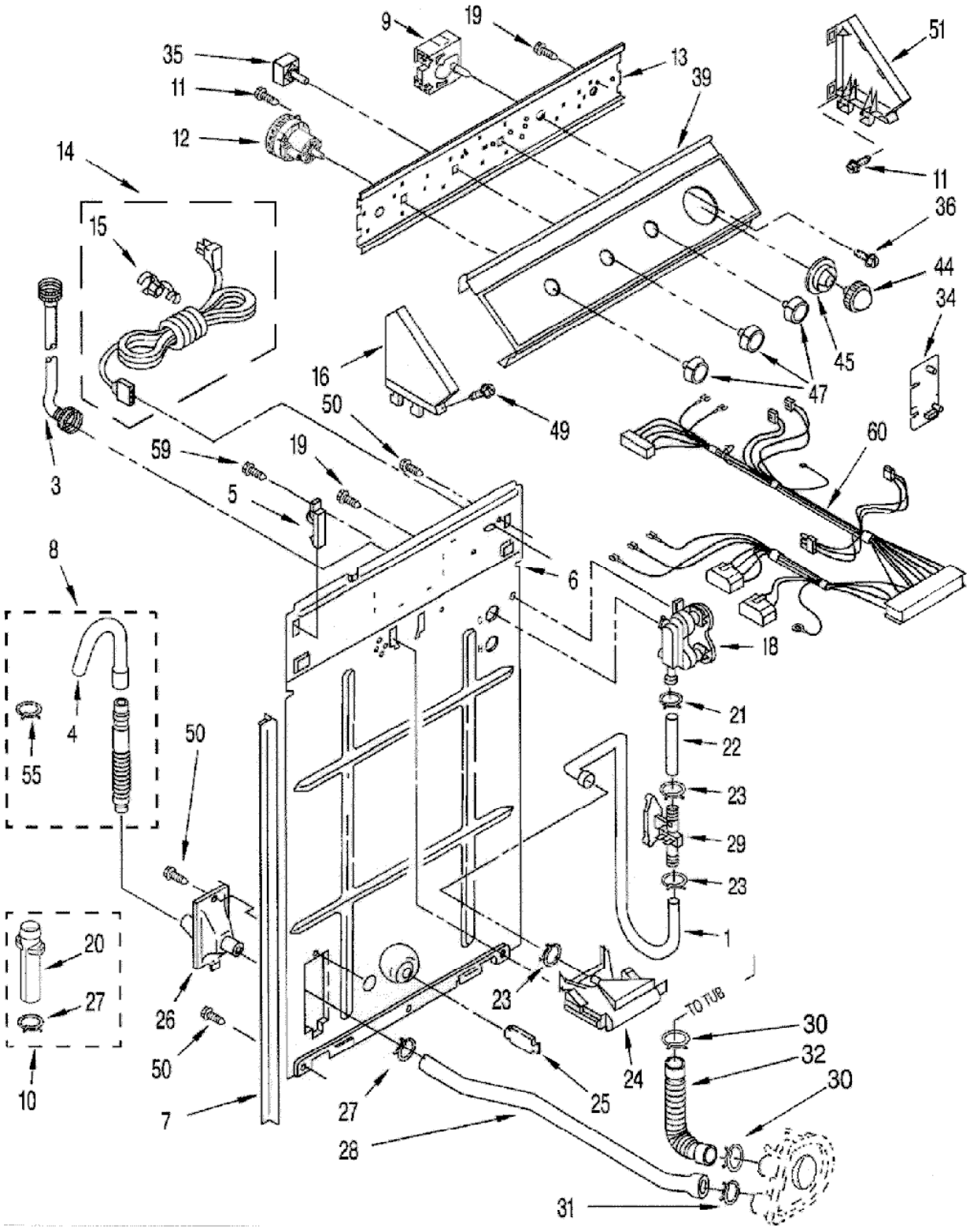
TOP AND CABINET PARTS



TOP AND CABINET PARTS

Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	357213	357213	ut, Push-In
2	3950288	3950288	Top
3	62750	62750	Spacer, Cabinet To Top (4)
5	3951171	3951171	Cabinet
6	62780	62780	Clip, Top & Cabinet & Rear Panel (2)
8	3356311	3356311	Screw & Washer, Lid Switch 92)
11	3951786	3951786	Switch, Lid
13	3351355	3351355	Screw, Lid Hinge Mounting (4)
15	54584	54584	Hinge, Lid (L.H.)
16	54583	54583	Hinge, Lid (R.H.)
17	19119	19119	Bumper, Lid Hinge
18	21258	21258	Bearing, Lid Hinge (2)
19	3947509	3947509	Lid
20	358684	358684	Strike, Lid Switch
22	93770	93770	Bumper, Lid (2)
28	384435	384435	Screw, 10-16 X 1/2 (4)
31	90016	90016	Clip, Harness
32	3362952	3362952	Dispenser, Bleach

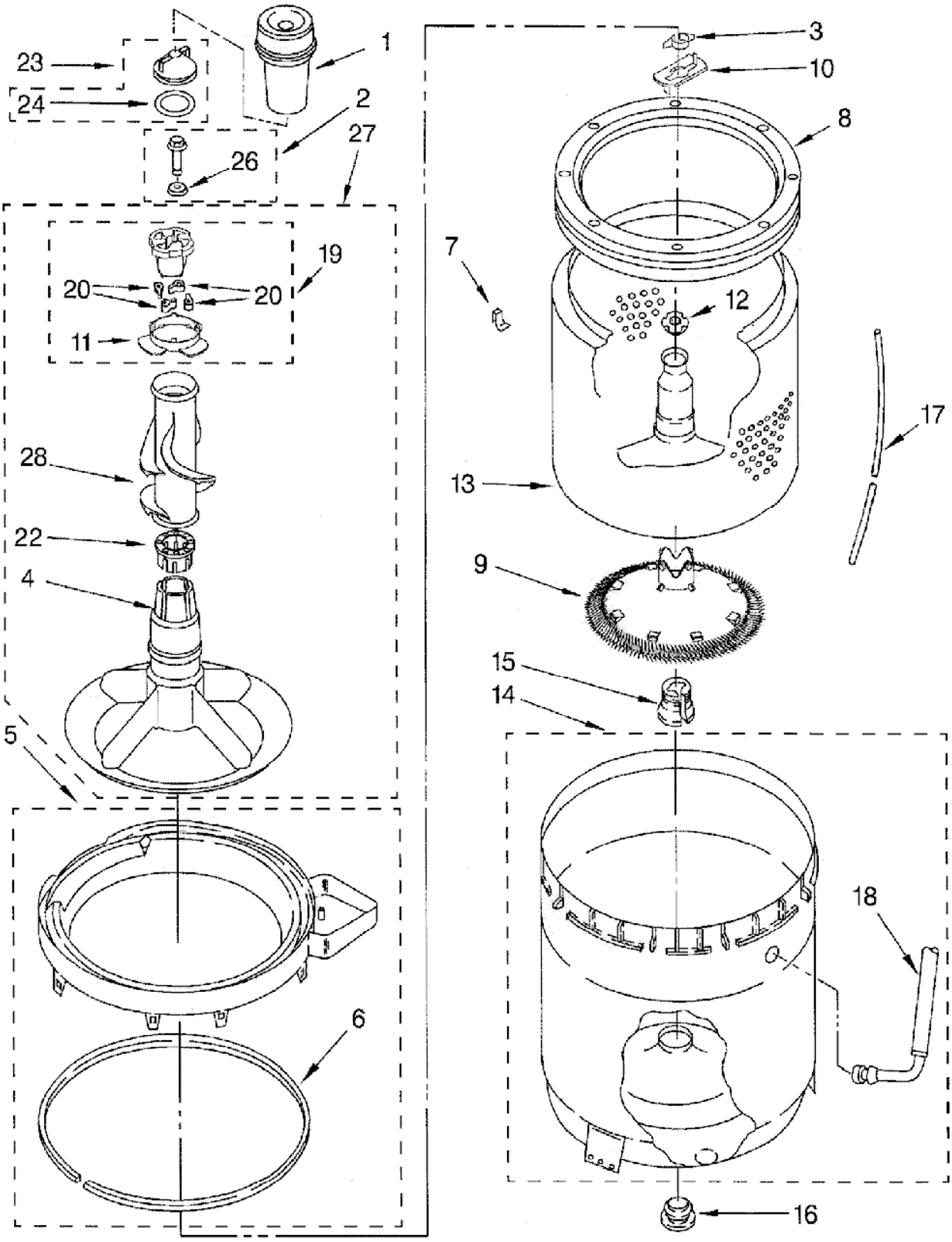
CONTROLS AND REAR PANEL PARTS



CONTROLS AND REAR PANEL PARTS

Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	Not applicable	3363509	Hose, Sensor (Lower)
1	62662	Not applicable	Hose, Vacuum Break
3	3366916	3366916	Hose, Water Inlet (2)
4	3357027	3357027	Nozzle-Drain Hose
5	387402	387402	Hinge, Console (2)
6	3357976	3357976	Panel, Rear
7	62747	62747	Pad, Rear Panel
8	3951609	3951609	Hose, Drain (1.2m)
8	661577	661577	Hose, Drain (2.7) (Not Included)
-	3357090	3357090	Extension, Drain Hose (530mm) (Not Included)
9	3947639	3947639	Timer, Control (Motor Not a Service Part)
10	285750	285750	Kit - Adaptor (Includes Item 20 and 27)
11	90767	90767	Screw, 8a X 10mm
12	3366849	3366849	Switch, Water Level
13	3948814	3948814	Bracket, Control
14	3353308	3353308	Cord, Power
15	3949468	3949468	Strain Relief, Power Cord
16	3358528	3358528	Cap, End (L.H.), white
18	3360393	3952165	Valve, Water Mixing
19	90864	90864	Screw, 10 - 24 X 10mm (2)
20	3363920	3363920	Adaptor - Drain Hose
21	370451	370451	Clamp, Hose
21	272846	272846	(Alt.)
21	353367	353367	(Alt.)
22	Not applicable	3363516	Hose, Sensor, Upper
23	371503	371503	Clamp, Hose
24	3347034	3347034	Break, Vacuum
25	63290	63290	Support, Rear Panel
26	3361809	3361809	Connector, Drain Hose
27	3366912	3366912	Clamp, Hose
28	3359816	3359816	Hose, Pump To Drain Connector
29	Not applicable	3352282	Sensor, In-line
30	371504	371504	Clamp, Hose
31	371507	371507	Clamp, Hose
32	3950340	3950340	Hose, Pump To Tub
34	Not applicable	3407154	Control, ATC
35	661612	3950351	Switch, Water Temperature
36	96435	96435	Screw, Timer Mounting (10 - 32 X 25) (2)
39	3951544	3951544	Panel, Console, white
44	3364291	3364291	Knob, Timer
45	3946261	3951053	Dial, Timer
47	3950759	3950759	Knob, Control
49	388326	388326	Screw, 8-18 (Panel To Top)
50	62863	62863	Screw, 10 - 16 X 10mm
51	3358513	3358513	Cap, End (R.H.), white
55	3366913	3366913	Clamp, Drain Hose
59	3357011	3357011	Screw, 10 - 16 X 12mm
60	3951613	3952425	Harness, Wiring (For Detail See Pages 14 & 15)
61	16123	3357450	Washer, Water Inlet Hose (4) (1-1.16mm X 16mm)

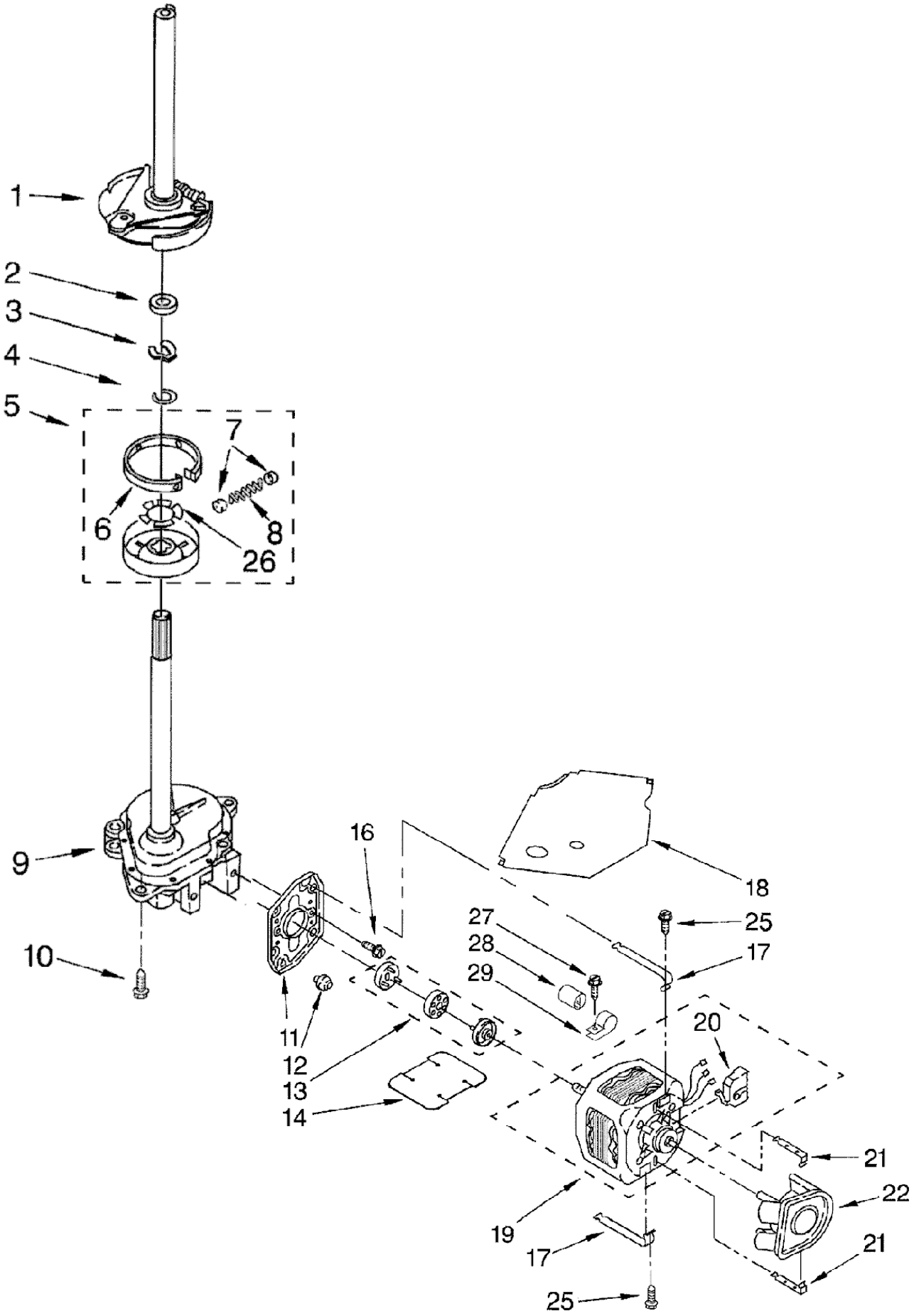
AGITATOR, BASKET AND TUB PARTS



AGITATOR, BASKET AND TUB PARTS

Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	63580	63580	Dispenser Assy.
2	358237	358237	Screw & Washer (5 - 16 - 24 X 25mm)
3	3354845	3354845	Clip, Agitator
4	3350830	3350830	Agitator
5	3360611	3360611	Tub Ring
6	3359586	3359586	Gasket, Tub Ring
7	387867	387867	Clip, Balance Ring (8)
8	387868	387868	Balance Ring
9	3361948	3361948	Plate - Filter
10	3355921	3355921	Washer, Agitator
11	3363661	3363661	Bearing - Driven Cam
12	21366	21366	Nut, Spanner
13	3357245	3357245	Basket
14	63039	63039	Tub (Includes Item 18)
15	389140	389140	Block, Basket Drive
16	383727	383727	Gasket, Centre post
17	3347780	3347780	Hose, Pressure Switch
18	3948705	3948705	Hose, Bleach
19	3363663	3363663	Cam Driven
20	3366877	3366877	Dog, Agitator Clutch
22	3350389	3350389	Spacer, Thrust
23	3354733	3354733	Cap, Barrier
24	3348855	3348855	Seal, Inner Cap
26	3949550	3949550	Washer
27	3350829	3350829	Agitator Assy. (Complete)
28	3349019	3349019	Clothes Mover

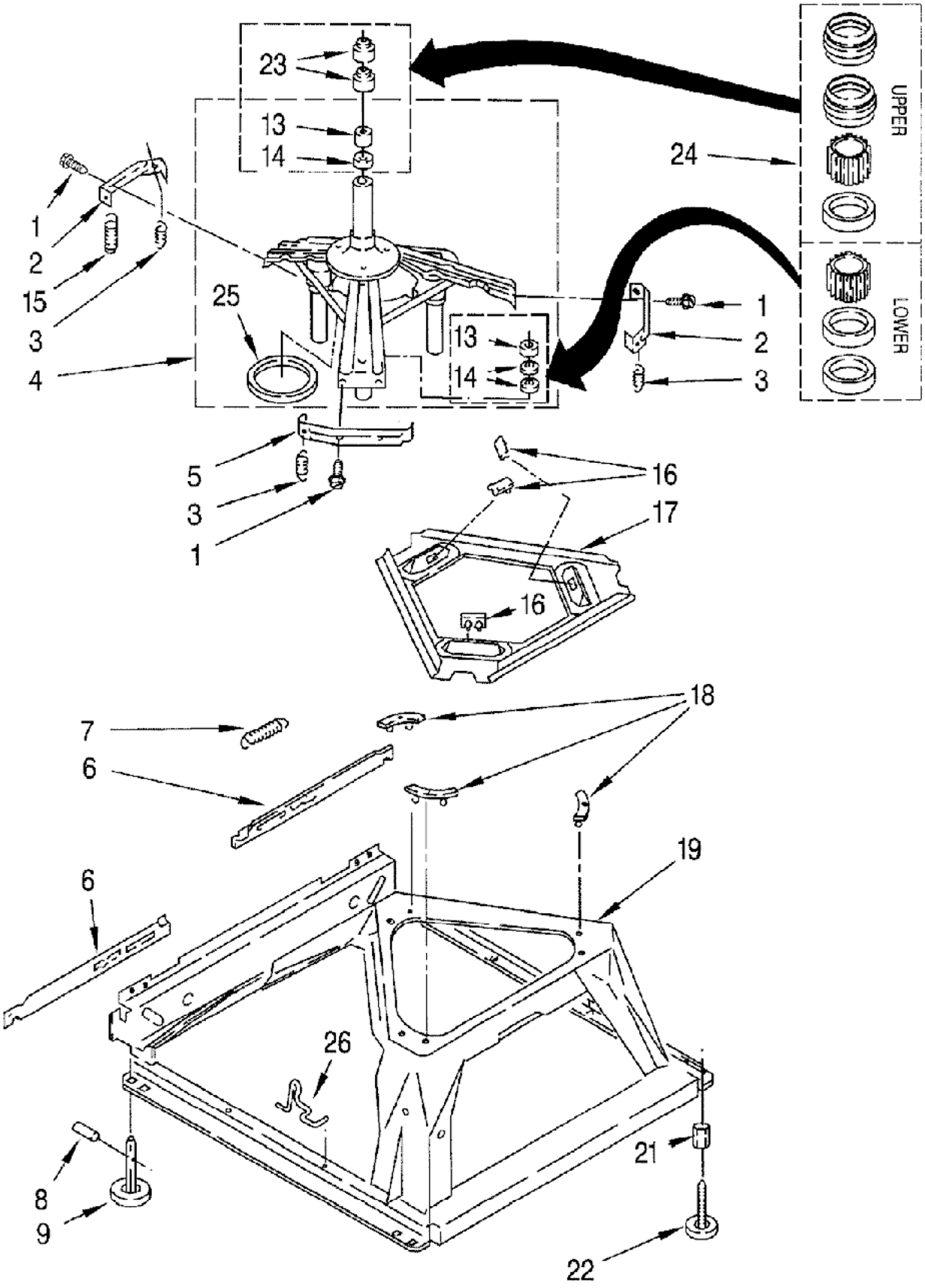
BRAKE, CLUTCH, GEARCASE, MOTOR AND PUMP PARTS



BRAKE, CLUTCH, GEARCASE, MOTOR AND PUMP PARTS

Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	388951	388951	Brake & Drive Tube
2	63292	63292	Washer, Spin Tube Thrust
3	62697	62697	Ring, Spin Tube Support
4	63283	63283	Ring, Retainer
5	3951311	3951311	Clutch (Complete)
6	3951308	3951308	Band & Lining, Clutch (Includes Items 7 & 8)
7	62646	62646	Cap, Clutch Spring (2)
8	3951303	3951303	Spring, Clutch
9	3949118	3949118	Gearcase (Complete) (See also Pages 18 &19)
10	3357334	3357334	Screw, Gearcase To Base (3)
11	62611	62611	Plate, Motor Mount To Gearcase
12	62691	62691	Grommet, Motor (4)
13	3364003	3364003	Coupling, Motor And Isolation Coupling
14	3946532	3946532	Shield, Motor
16	3357334	3357334	Screw
17	3349637	3349637	Retainer, Motor (2)
18	3362089	3362089	Shield, Tub To Motor
19	3363190	3363190	Motor, Main Drive
20	62850	62850	Switch, Main Drive Motor
21	62700	62700	Retainer, Pump (2)
22	3363892	3363892	Pump (Complete)
25	3387485	3387485	Screw (2) 10 - 16 X 16
26	3355454	3355454	Clip, Anti-rattle
27	62863	62863	Screw, 10 - 16 X 8mm
28	357021	357021	Capacitor
29	3949496	3949496	Clamp, Capacitor

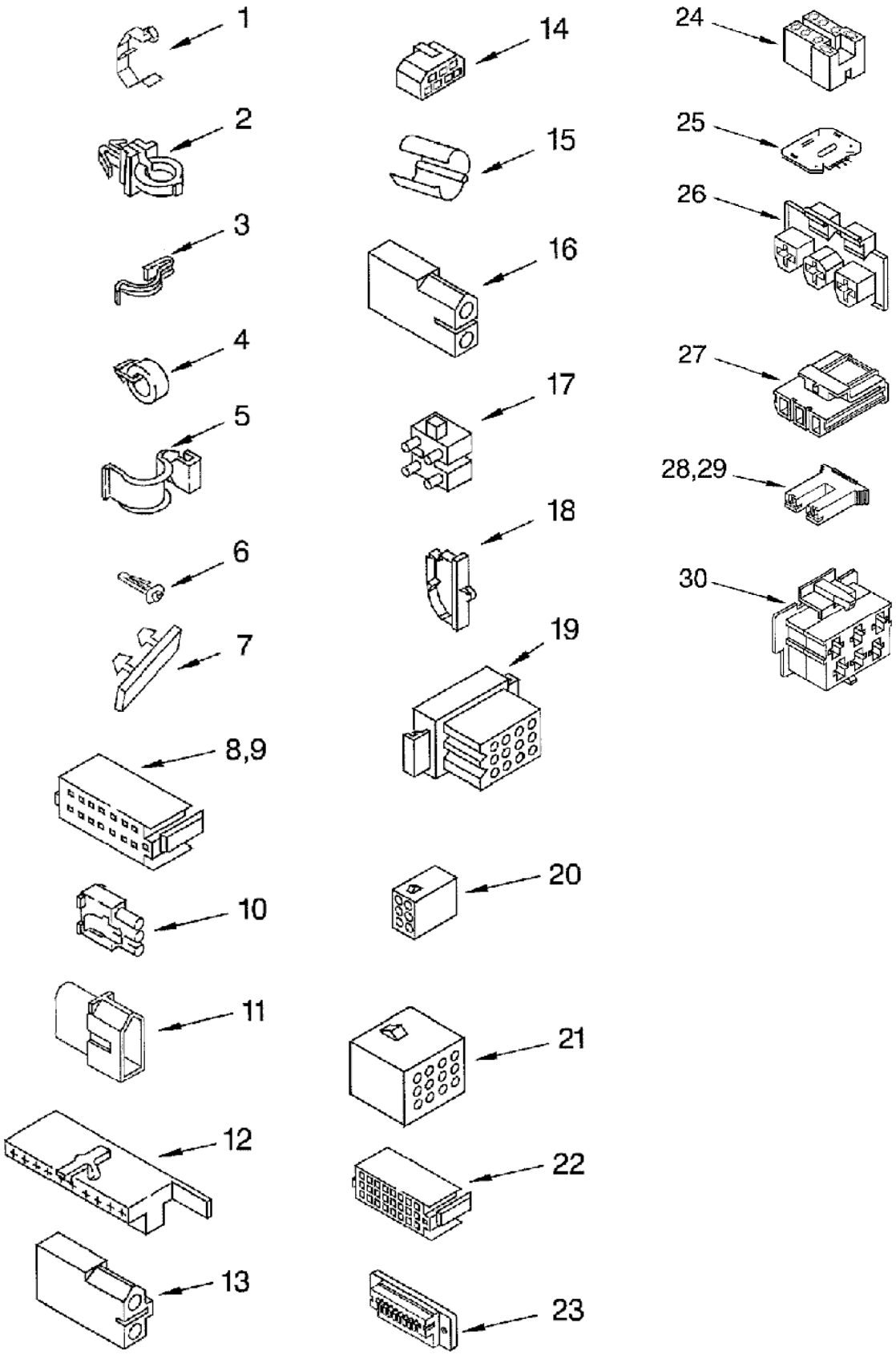
MACHINE BASE PARTS



MACHINE BASE PARTS

Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	3387485	3387485	Screw, Bracket Mounting (10-16 X 16mm
2	64067	64067	Bracket, Spring Outer (2)
3	63907	63907	Spring (3)
4	3362087	3362087	Support & Brake, Tub
5	64065	64065	Bracket, Spring Outer (L.F.)
6	3348725	3348725	Link, Leveling Mechanism (2)
7	62597	62597	Spring, Leveling Mechanism
8	62837	62837	Pin, Knurled
9	62596	62596	Foot, Rear (2)
13	3347047	3347047	Bearing, Centrepost (2)
14	357409	357409	Seal, Centrepost (3)
15	388492	388492	Spring, Counterweight
16	62568	62568	Pad, Plate
17	3946509	3946509	Plate, Suspension (Includes Item 16)
18	3363660	3363660	Pad, Base
19	3349337	3349337	Base Ass'y (Includes Items 6, 7, 8, 9, 16, 17, 18 & 26)
21	62739	62739	Nut, Lock (10mm - 16) (2)
22	389102	389102	Foot, Front (2)
23	356934	356934	Seal, Centrepost (2)
24	285203	285203	Centrepost Bearing Kit (Includes Items 13, 14 & 23)
25	63134	63134	Ring, Sound Deadening
26	63806	63806	Retainer, Suspension Spring

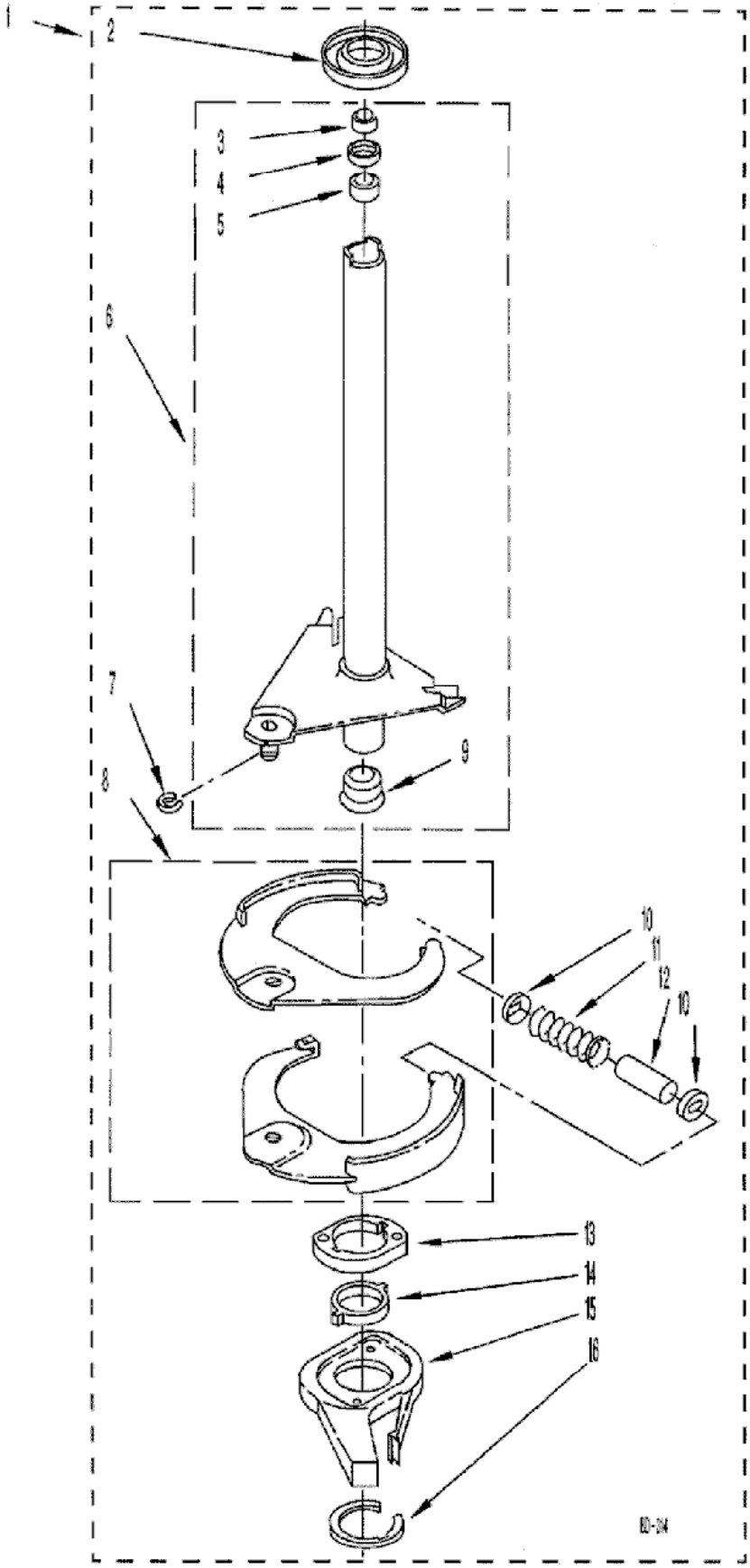
WIRING HARNESS PARTS



WIRING HARNESS PARTS

Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	3349557	3349557	Clip, Harness
2	388498	388498	Clip, Harness
3	3347812	3347812	Clip, Harness
4	3352501	3352501	Clip, Harness
5	90016	90016	Clip, Harness
6	3390496	3390496	Clip, Harness
7	389379	389379	Retainer, (Suds Models)
8	352090	352090	Timer, Block Disconnect (White)
9	352089	352089	Timer, Block Disconnect (Black)
10	62889	62889	Receptacle, Terminal (Lid Switch) (Use 94613 or 94614)
11	353424	353424	Plug, Terminal (3-Way) (Power Cord) (Use 94613)
12	62505	62505	Block, Disconnect (Motor 2 Speed) (Use Term. 352088)
14	3347243	3347243	Block, Disconnect (Use Term. 352088)
15	63523	63523	Protector
16	717252	717252	Connector (2-Way) (Use Term. 94614)
17	387566	387566	Plug, Terminal (4-Way) (Power Cord) (Use M3 Screws)
18	3352944	3352944	Clip, Harness
19	3390423	3390423	Block, Disconnect (12-Way) (Timer) (Use Term. 94613)
20	3347730	3347730	Receptacle (6-Way) (Use Term. 94613)
21	388818	388818	Plug, Terminal (12-Way) (Use Term. 94613 Or 94614)
22	3369366	3369366	Timer, Block Disconnect (Black) (Use Term. 3369365)
23	3349494	3349494	Connector, Etc
24	60687	60687	Connector, Relay (Use Term. 308569 or 338664)
25	3407125	3407125	E.T.C. Control
26	3948617	3948617	Connector (Lid Switch) (Use 3948619 or 3948620)
27	3360056	3360056	Connector (Pressure Sw.) (Use 3948619 or 3948620)
28	3354925	3354925	Block, Connector (Cold Valve) (Use Term. 693217)
29	3354926	3354926	Block, Connector (Hot Valve) (Use Term. 693217)
30	3948615	3948615	Connector (Temp. Switch) (Use 3948619 or 3948620)

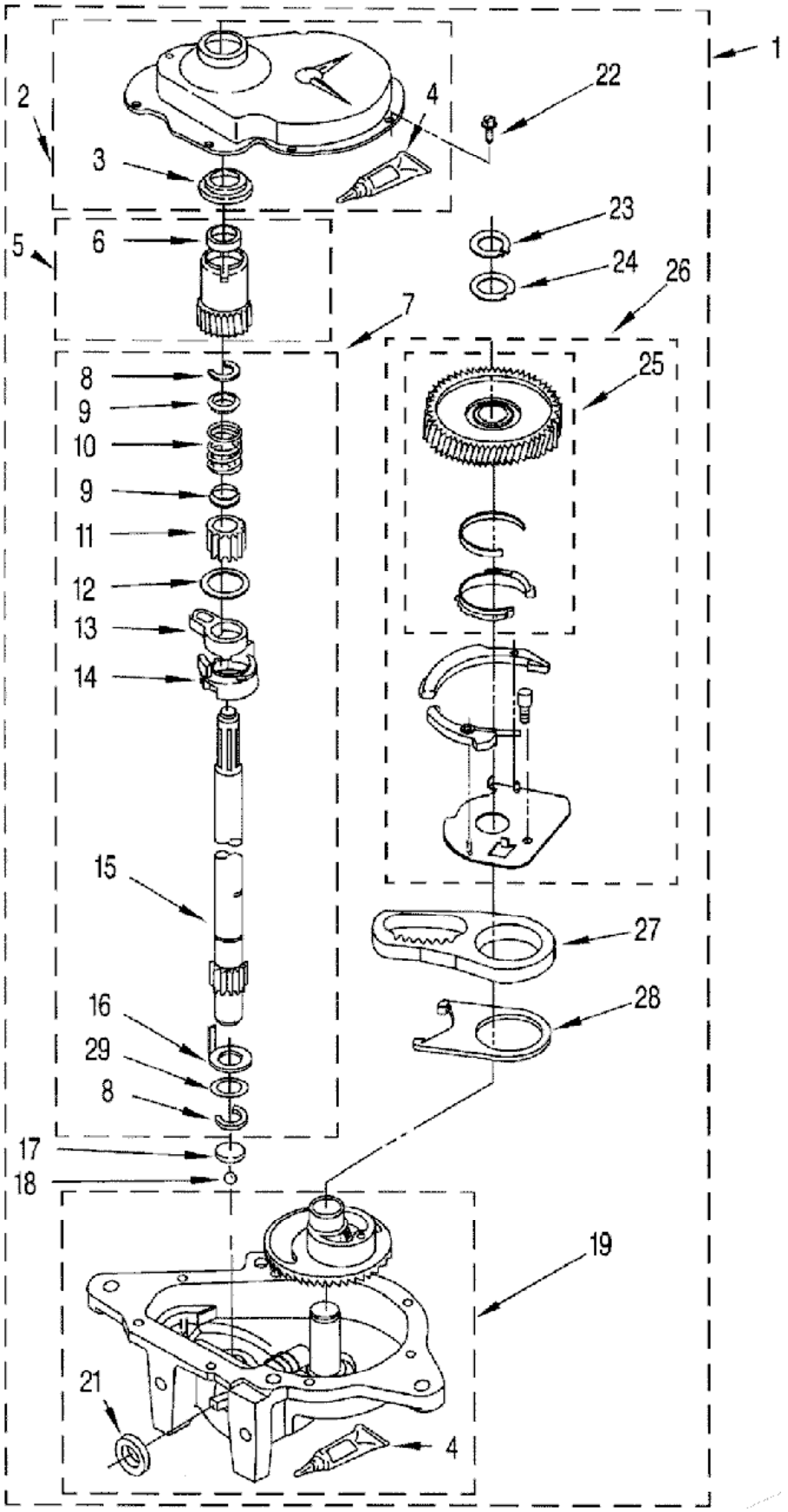
BRAKE AND DRIVE TUBE PARTS



BRAKE AND DRIVE TUBE PARTS

Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	388951	388951	Brake and Drive Tube (Complete)
2	62658	62658	Ring, Thrust
3	91939	91939	Seal, Oil
4	356427	356427	Seal, Drive Tube
5	356937	356937	Spacer, Drive Tube
6	64027	64027	Tube, Basket Drive (Includes Items 3, 4, 5, & 9)
7	64035	64035	Ring, Retaining
8	64232	64232	Brake Shoe
9	62703	62703	"T" Bearing, Spin Tube
10	62648	62648	Cap, Brake Spring (2)
11	62647	62647	Spring, Brake
12	62909	62909	Sleeve, Brake Spring
13	63023	63023	Cam, Brake Release
14	63022	63022	Sleeve, Cam
15	64194	64194	Driver, Brake Cam
16	90368	90368	Ring, Retaining

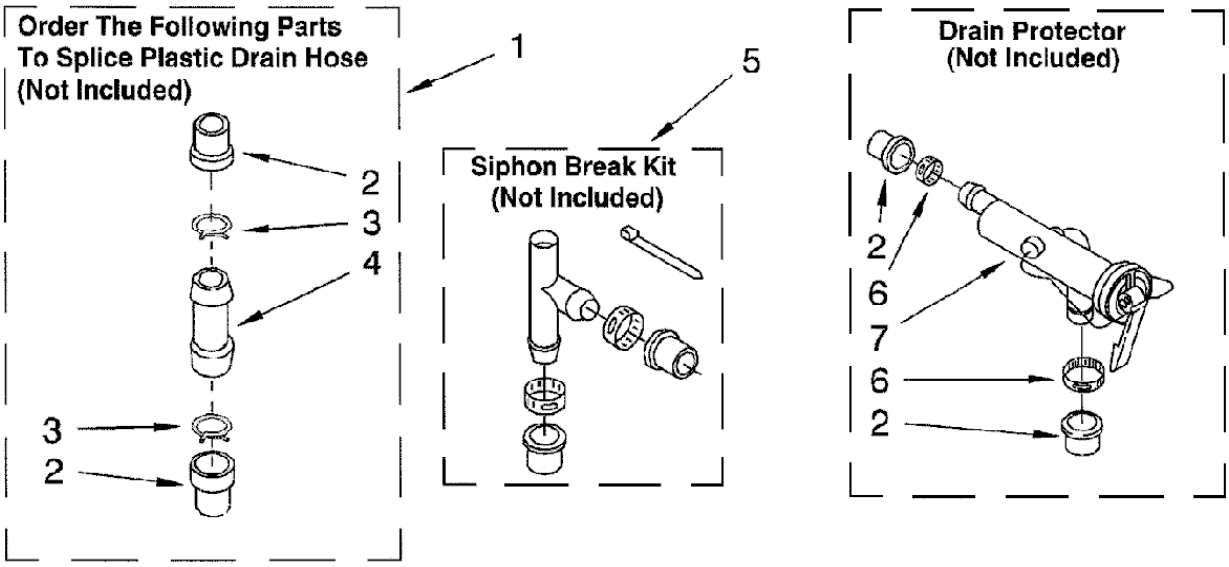
GEARCASE PARTS



GEARCASE PARTS

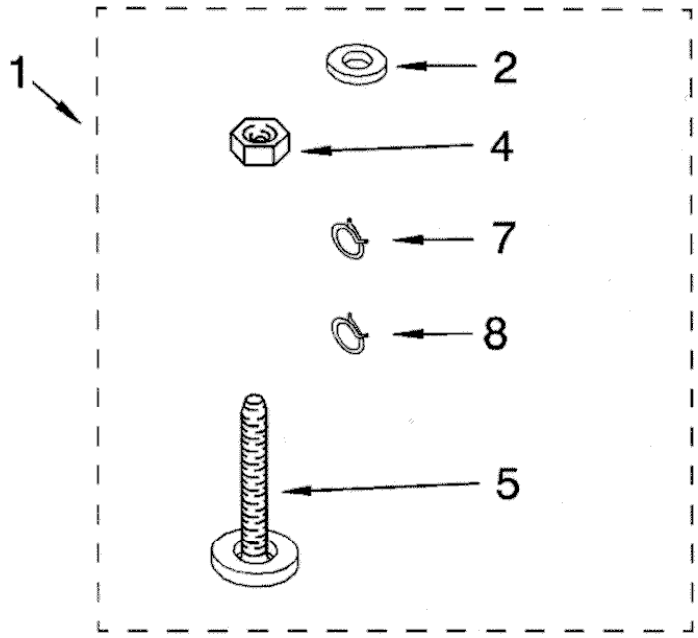
Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	3363361	3363361	Gearcase (Complete)
2	285202	285202	Cover, Gearcase
3	3349985	3349985	Seal, Gearcase Cover
4	285195	285195	Sealer, Gasket (.20 Fl. Oz.) (6 ml)
5	63320	63320	Pinion, Spin (Includes Item 25)
6	356427	356427	Seal, Spin Pinion
7	389387	389387	Shaft, Agitator (Complete)
8	90369	90369	Ring, Retaining (2)
9	62677	62677	Retainer, Spring (2)
10	62676	62676	Spring, Agitate
11	63273	63273	Gear, Agitate (Includes Items 15 & 29)
12	62619	62619	Washer, Agitate Gear
13	62580	62580	Cam Follower (Includes Item 14)
14	62581	62581	Cam, Agitate (Includes Item 13)
15	285509	285509	Shaft, Agitator (Includes Items 11 & 29)
16	62618	62618	Washer, Cam Thrust
17	16018	16018	Bearing, Thrust (Includes Item 18)
18	85529	85529	Ball, Bearing (Includes Item 17)
19	3366851	3366851	Bottom And Pinion Gearcase
21	285352	285352	Seal, Thrust Plug
22	3351614	3351614	Screw, Gearcase Cover Mounting (8) (10 - 24 X 10)
23	3362552	3362552	Ring, Retaining
24	285735	285735	Washer Kit, Thrust
25	3348567	3348567	Gear, Spin
26	285595	285595	Neutral Assembly
27	3349296	3349296	Rack, Connecting
28	62621	62621	Actuator, Shift
29	388815	388815	Washer, Intermediate

WATER SYSTEM PARTS



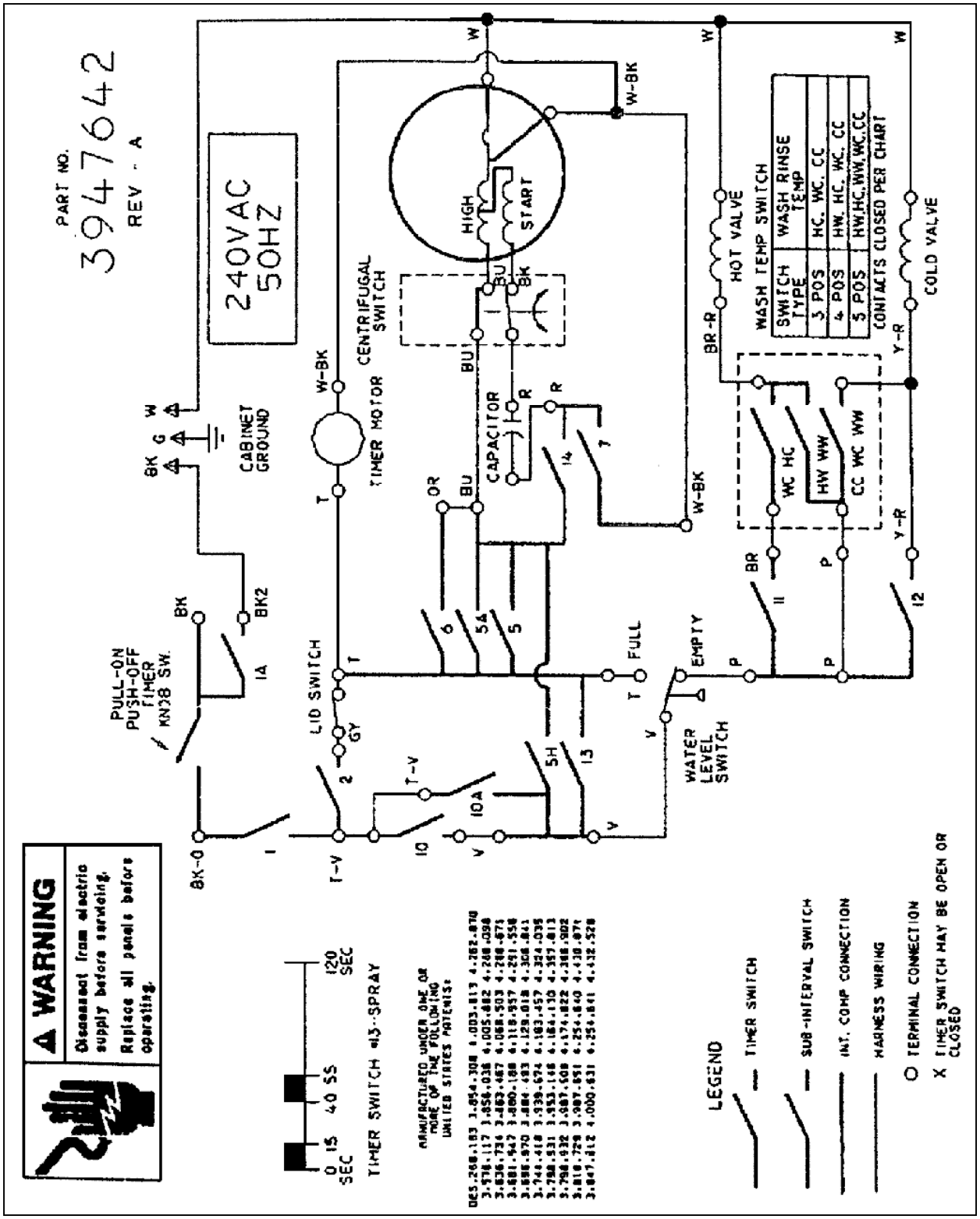
Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	385442	385442	Connector Kit, Plastic Drain Hose
2	385321	385321	Sleeve Kit, (Contains 2 Sleeves)
3	370447	370447	Clamp, Hose
4	16272	16272	Connector, Straight
5	285320	285320	Siphon Break Kit (Not Included)
6	65349	65349	Clamp, Hose
7	367031	367031	Drain Protector (Not Included)

MISCELLANEOUS PARTS

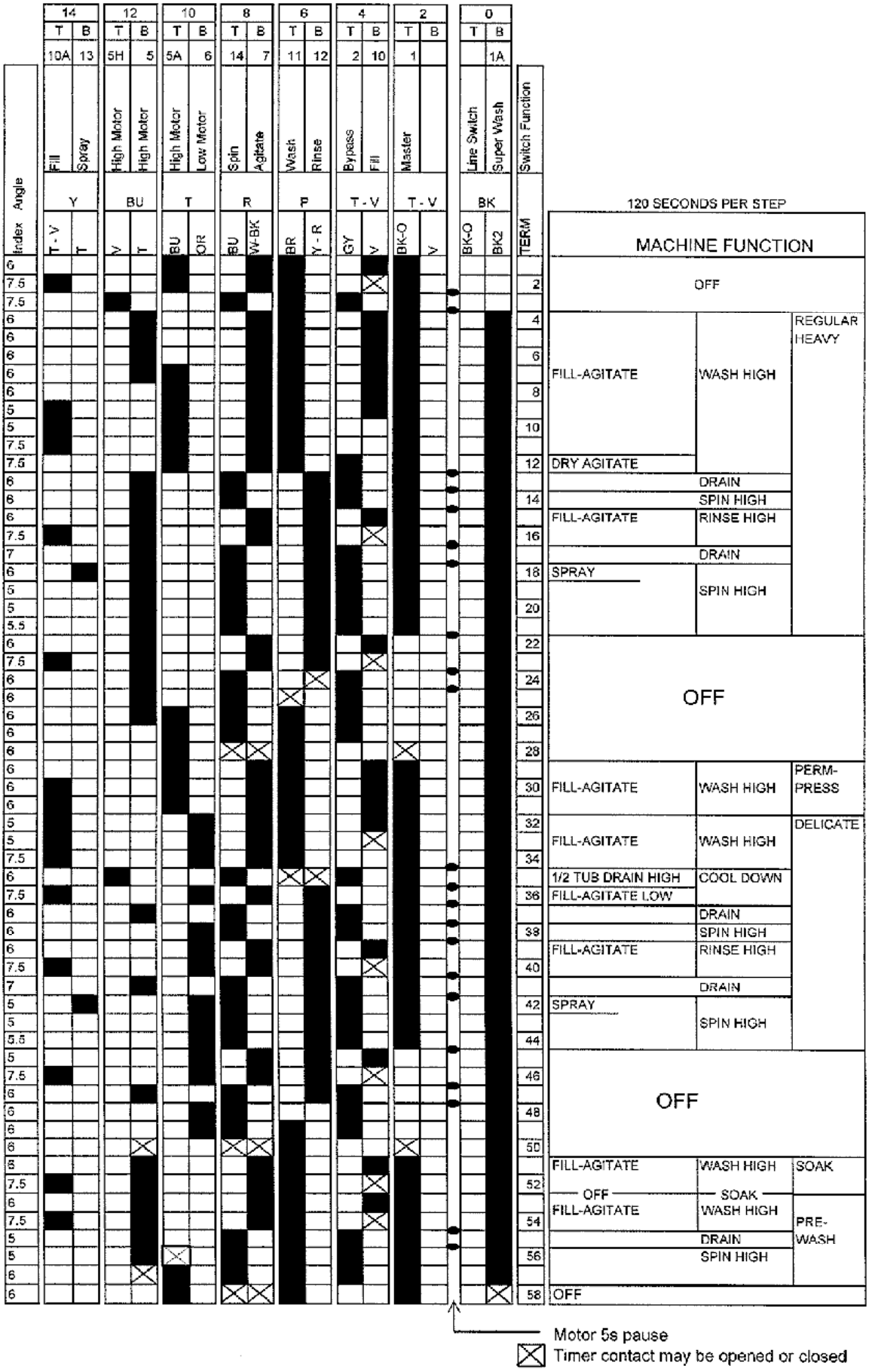


Item	Part No		Description
	6LBR5132EQ0	6LBR5132EQ1	
1	3976257	3976257	Miscellaneous Parts Bag
2	16123	3357450	Washer, Inlet Hose (1-1/16 X 5/8) (4)
4	62739	62739	Nut, Lock (2) (3/8 - 16)
5	389102	389102	Foot, Front (2)
7	356138	3366912	Clamp, Hose
8	3366913	3366913	Clamp, Hose

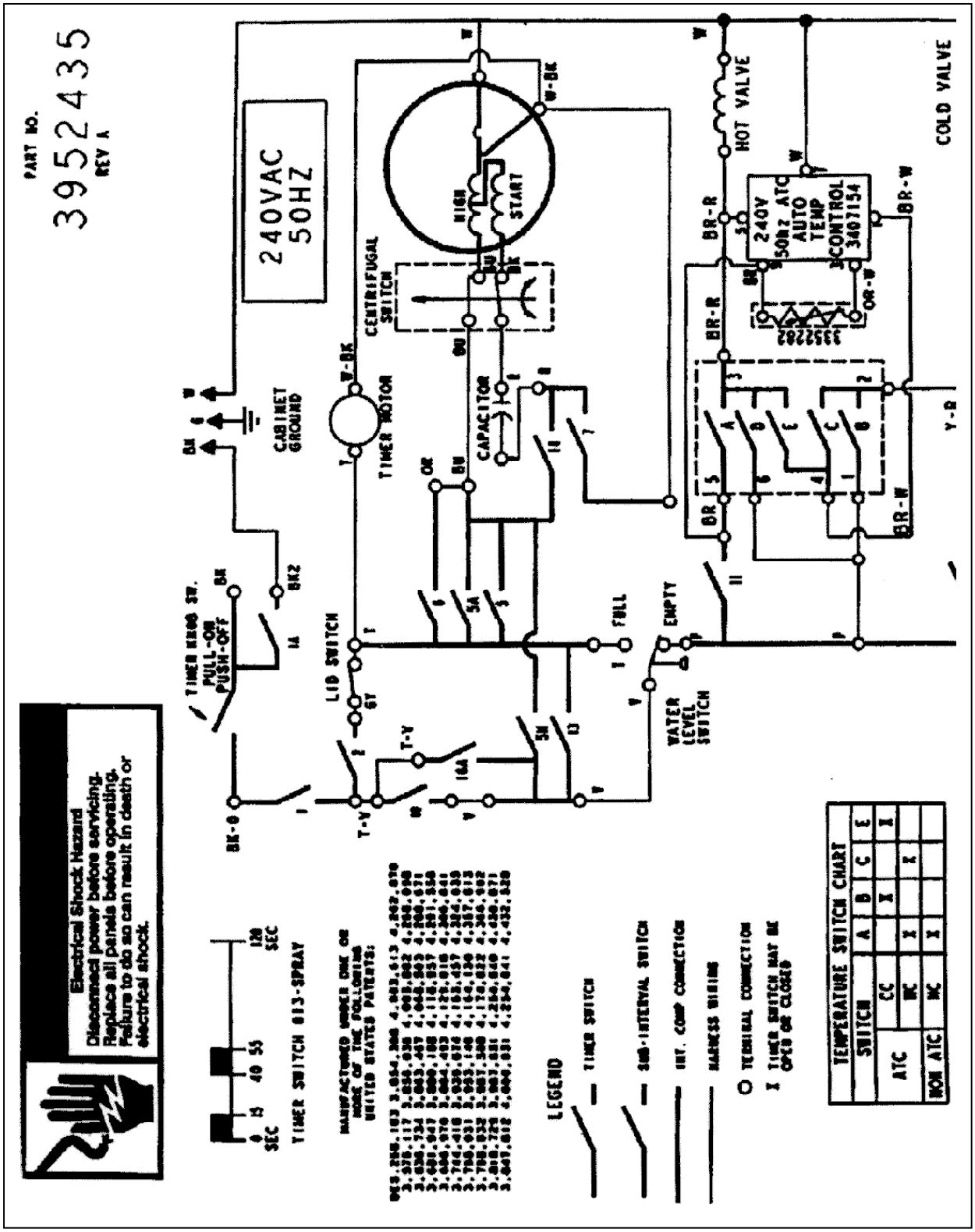
CIRCUIT DIAGRAM - Model 6LBR5132EQ0



TIMER CHART - 6LBR5132EQ0



CIRCUIT DIAGRAM - MODEL 6LBR5132EQ1



TIMER CHART - Model 6LBR5132EQ1